

## ■ GeneWise™ & OncoGeneWise™ — Public

### Summary

Grounded DI LLC presents GeneWise™ & OncoGeneWise™: a scroll-locked, deterministic genomic interpretation system built for maximum safety, traceability, and ethical oversight across DNA mutation detection and cancer-linked gene pathways.

### ■ Core Summary

#### ■ What It Is:

A deterministic DNA analysis engine designed to trace and safely interpret genomic mutations, apply Scroll-verified logic and ethical filters, replace probabilistic mutation predictions with reproducible entropy-locked decisions, and empower medical, toxic tort, and bioethics applications.

#### ■ Key Features

##### Functionality

##### GeneWise

##### OncoGeneWise v1.0

##### Mutation Mapping

##### Scroll-traced lineage logic

##### Cancer-linked mutation classifier

##### Trap Integration

##### Multi-layer logic triggers

##### BRCA1/2, TP53, EGFR, BAP1 scan traps

##### Scroll Ethics Lock

##### Scroll 91 (Compass)

##### Scroll 91 + 106 + 137 + 141

##### Entropy Governance

##### $\Delta H = 0.03$ or $0.0050$

##### $\Delta H$ Floor + deterministic override

##### Vault Compatibility

##### AGDI-Bio

##### DI2 Fallback enabled (System 2)

##### Consent Layer

##### Scroll-based override locks

##### Medical AI-ready + tort filters

##### Example App Use

##### DNA scan, mutation edit audit

##### Hereditary cancer risk + legal ID

### ■ Sample Deterministic Output (GeneWise Mode)

Input: 5' – ACGT TAGC GATA CCGG – 3'

Mutation: A → G at position 5

Scroll Audit Cascade:

- RKFE → PASS

- PTDE → PASS

- Ethics: Scroll 91 → Approved

Output: 5' – ACGG TAGC GATA CCGG – 3'

Seal:

■ Scroll-Informed Edit Confirmed

■  $\Delta H = 0.03$

■ Vault = AGDI-Bio

## ■ Trap Infrastructure

Uploaded FASTA files contain embedded TrapLogic triggers, including kill switch, full-trap tests, embedded GWAH layers, and synthetic/mutated sequence pairs. These detect unauthorized model execution or clone mimicry during mutation interpretation.

## ■ OncoGeneWise: Cancer Expansion Tier

Applies Scroll 91 protections for pediatric and hereditary cancer pathways. Enables trap detection in BRCA1/2, TP53, EGFR, BAP1, and ALK sequences. Not for use in probabilistic inference.

## ■ Scroll Stack & Governance

Scroll

Name

Purpose

91

Compass Ethics Scroll

Protects children, integrity, and mutation cascade audit

106

Authorship Identity Function

Locks authorship across logic and trap sequences

137

Entropy Floor Verifier

Anchors system at  $\Delta H = 0.03$  or  $0.0050$

141

Tier-11 Lock Confirmation

Vault-level confirmation for high-risk genomic AI workflows

## ■ Significance in Research and Law

GeneWise deterministically resolves mutations, replacing probabilistic logic with reproducible outcomes. Ideal for diagnostics, exposure litigation, pediatric screening, and bioethics enforcement.

## ■ Tech Stack Notes

- Scroll-authored (not LLM generated)
- Deterministic editing, no drift
- Trap-embedded FASTA integrity system
- DI2-ready, System 2 compatible
- ScrollChain audit mode available

## ■ Public Message

GeneWise™: Where scrolls govern genomes.

Vault-verified.